

ABSTRACT

The present invention provides a A multicolor light-emitting device includes including a plurality of organic EL devices each having two or more different luminescent colors in which the take-out efficiency of the emission of each color can be optimized by a simple configuration and which has a low price and high efficiency. The multicolor light-emitting device includes a plurality of organic EL devices each having an organic compound layer including a light-emitting layer 12 between a reflecting electrode 11 and a transparent electrode 14[[, the]]. The plurality of organic EL devices each having has two or more different emission spectra, wherein light-emitting regions in the light-emitting layer of the organic EL devices each having [[the]] different emission spectra are located in different positions in the layer thickness direction corresponding to the different emission spectra[[,.]] and ~~allows the take-out efficiency of the light of the organic EL device for each color to be optimized while giving the same material, thickness and the like to the first charge-transporting layer 16, the second charge-transporting layer 13, the electrodes and the like.~~

ABSTRACT

A multicolor light-emitting device includes a plurality of organic EL devices each having two or more different luminescent colors. The multicolor light-emitting device includes a plurality of organic EL devices each having an organic compound layer including a light-emitting layer 12 between a reflecting electrode 11 and a transparent electrode 14. The plurality of organic EL devices each has two or more different emission spectra, wherein light-emitting regions in the light-emitting layer of the organic EL devices each having different emission spectra are located in different positions in the layer thickness direction corresponding to the different emission spectra.